## **INTERNATIONAL SEARCH REPORT**

International application No.

PCT/AU2004/001476

A.	CLASSIFICATION OF SUBJECT MATTER								
Int. Cl. 7:	H04K 1/00, G01B 9/02								
According to	International Patent Classification (IPC) or to both n	national classification and IPC							
В.	FIELDS SEARCHED								
Minimum docu	mentation searched (classification system followed by cla	ssification symbols)							
Documentation	searched other than minimum documentation to the exter	nt that such documents are included in the fields search	ned .						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  DWPI: keywords [(1) interferomet+; quantum; beamsplit+, split+, divid+, coupl+, waveplate?; (2) interferomet+, beamsplit+, split+, divid+, frequenc+; qubit?]									
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category*	Citation of document, with indication, where appro	opriate, of the relevant passages	Relevant to claim No.						
<b>X</b>	WO 2003/019283 A2 (UT-BATTELLE LLC 1 <sup>st</sup> & 2 <sup>nd</sup> paragraphs at page 9, "Quantum Cha Information" (pages 26-32), figures 1, 8, 9		1, 3-8						
x	US 6430345 B1 (DULTZ et al.) 6 August 200 The whole document	1, 3-8							
Α -	US 2003/0169880 A1 (NAMBU et al.) 11 Se The whole document	1-10							
Α	US 2002/0140941 A1 (PEDIGO) 3 October 2 The whole document	2002	1-10						
Fu	arther documents are listed in the continuation	of Box C X See patent family anne	ex						
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" carlier application or patent but published on or after the international filing date  "X" later document published after the international filing date or priority date conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document published after the international filing date or priority date conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document published after the international filing date or priority date conflict with the application but cited to understand the principle or theory underlying the invention									
"L" documen or which another c documen	ne ne nument of particular relevance; the claimed invention cannot olve an inventive step when the document is combined with h documents, such combination being obvious to a person structurent member of the same patent family	one or more other							
	t published prior to the international filing date than the priority date claimed	,							
Date of the actual 4 January 200	al completion of the international search	Date of mailing of the international search report  1 2 JAN 2005							
	ng address of the ISA/AU	Authorized officer							
PO BOX 200, V	PATENT OFFICE VODEN ACT 2606, AUSTRALIA pct@ipaustralia.gov.au 02) 6285 3929	IRINA TALANINA Telephone No: (02) 6283 2203	}						

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member						
wo	03019283	US	6678054	US	2003098979	US	2003098980	
	_	wo	03019282	WO	03019284		•	
US	6430345	CA	2297892	DE	19823849	EP	1055308	
		wo	9962220		_			
US	2003169880	JP	2003249928					
US	2002140941						-	

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX